

**TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS, TEXAS**

**SEEDING REPORT - August 2, 2016**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Persistence seems to be the best choice with the forecast right now as the atmosphere hasn't changed much. We did see a few showers and storms develop across the Trans-Pecos yesterday, but without upper level support they would immediately rain out upon development. We may see more of that today although the upper level winds are even less favorable. It is expected that any convection that develops stays along the mountains with a few storms possibly making it over the adjacent plains.

**LIFTING MECHANISM:**

SUFFICIENT SURFACE HEATING

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	5000	CAPE (J/Kg)	541
Precipitable Water (inches)	1.3	CINH (J/Kg)	278
LCL	1545	LI(°C)	-1.4
CCL	3310	PB	1
MAF ICA	-3.68	DRT ICA	-
Cloud Base (meters)	3352	Cloud Base Temp (°C)	8
Warm Cloud Depth (meters)	1648		

**DISCUSSION:**

MAJOR NETWORKING ERRORS LED TO AN DAY OF OPERATIONS WITHOUT ANY DATA FOR ANALYSIS. ADDITIONALLY, RADIO COMMUNICATIONS WERE DOWN FOR A BIT. HOWEVER, SEEDING BEGAN SHORTLY AFTER 2000Z AS PILOT/METEOROLOGIST IMPROVISED AND USE RADAR APPS VIA 4G DATA AS NETWORKING ISSUES WERE RESOLVED. SEEDING TOOK PLACE THROUGH 2130Z AS WIDESPREAD SHOWER/STORM DEVELOPMENT OCCURRED AND PUSHED NORTH FROM THE DAVIS MOUNTAINS. AFTER FIRING OVER 30 FLARES, A FEW STORMS WERE SEEDED NEAR PECOS BUT RADAR TRENDS THREATENED THE AREA. WITH FUEL GETTING SOMEWHAT LOW, WE DECIDED IT WAS A GOOD TIME TO RTB, REFLARE AND REFUEL ALLOWING US TO SET UP FOR ANOTHER FLIGHT THIS EVENING. PILOT LANDED JUST AFTER 2140Z AND GOT SET BACK UP BY 2215Z. WE'LL RELAUNCH AS MORE DEVELOPMENT WAS ONGOING ACROSS PARTS OF LOVING AND WARD COUNTY. THE DEVELOPMENT FURTHER SOUTH AND EAST WERE IMPACTING OUR NO-SEED ZONE, SO WE'LL EAVE THAT STUFF GO. PILOT GO BACK AIRBORNE AT 2230Z, HOWEVER RADIO COMMUNICATIONS WERE DOWN ONCE AGAIN AND DEVELOPMENT BEGAN TO DISSIPATE WITH THE LOSS OF HEATING DUE TO OVERCAST CONDITIONS. WE DECIDED TO WRAP IT UP AND GET READY FOR OUR NEXT FLIGHT.

**ADDITIONAL NOTES:**

Per management, a 20-mile radius around Coyanosa should not be seeded, as well as any storms that may impact that area from any direction. Farmers will be harvesting over the next 2 weeks and requested this.

**WARNING/WATCHES:**

None

**SEEDED CELL ID'S:**

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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
1930	26P	IN AIR	
2003	26P	200° @ 17 nm	REEVES
2006	26P	200° @ 16 nm	REEVES
2009	26P	210° @ 15 nm	REEVES
2011	26P	210° @ 14 nm	REEVES
2012	26P	215° @ 13 nm	REEVES
2013	26P	215° @ 13 nm	REEVES

2017	26P	200° @ 13 nm	REEVES
2031	26P	210° @ 11 nm	REEVES
2056	26P	125° @ 26 nm	REEVES
2100	26P	130° @ 26 nm	REEVES
2103	26P	120° @ 27 nm	REEVES
2115	26P	115° @ 09 nm	PECOS
2119	26P	120° @ 10 nm	PECOS
2122	26P	110° @ 10 nm	PECOS
2130	26P	RTB	

Seeding operations were conducted in Reeves (27) and Pecos (6) Counties. 33 flares were burned within 3 clouds. This is the 1<sup>st</sup> day for seeding in August and the 7<sup>th</sup> day for seeding during the season.